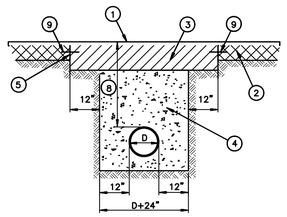
REVISIONS:

NOTES:

1. LONGITUDINAL TRENCH – 2" ASPHALT CLASS B OVERLAY. TRANSVERSE TRENCH – 2" ASPHALT CLASS B OVERLAY WHERE MULTIPLE CROSSINGS BY SAME UTILITY.
2. EXISTING PAVEMENT.
3. LONGITUDINAL TRENCH – 6" ACP OR 2" ACP + 4" ATB. TRANSVERSE TRENCH – 8" ACP OR 2" ACP + 6" ATB. IF CONCRETE, RESTORATION SHALL BE IN ACCORDANCE WITH SECTION 5-05 OF THE WSDOT/APWA SPECIFICATIONS.
4. NATIVE MATERIAL, BANK RUN GRAVEL, CSTC OR CONTROL DENSITY FILL MAY BE REQUIRED BY THE ENGINEER.
5. NEAT LINE CUT, CLEAN, HEAT & TACK EDGES WITH SEALER CSS-1 & SEAL WITH HOT ASPHALT CEMENT.
6. TEMPORARY RESTORATION OF TRENCHES FOR OVERNIGHT USE SHALL BE ACCOMPLISHED BY USING COLD MIX, ATB, OR STEEL PLATES.
7. PATCH SHALL BE MACHINE ROLLED FLUSH WITH EXISTING PAVEMENT AND SHALL BE PLACED PER SECTION 5-04 OF THE WSDOT/APWA SPECIFICATIONS.
8. COVER DEPTH OVER UNDERGROUND UTILITIES SHALL CONFORM TO FEDERAL AND STATE REGULATIONS.
9. TRENCHES IN CONCRETE PAVEMENT SHALL BE RESTORED USING TIE BARS OR DOWEL BARS IN ACCORDANCE WITH SECTION 5-05 OF THE WSDOT/APWA SPECIFICATIONS.

SEE TEXT SECTIONS 8-02, 8-04, 8-05.

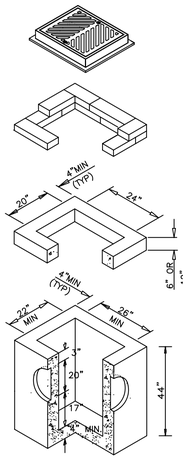


SNOHOMISH COUNTY PUBLIC WORKS		APPROVED BY:
8-030	UTILITY TRENCH RESTORATION AND BACKFILL	COUNTY ROAD ENGINEER DATE

NOTES:

1. CATCHBASINS TO BE CONSTRUCTED IN ACCORDANCE WITH ASTM C 478 (AASHTO M 199) & ASTM C 890 UNLESS OTHERWISE SHOWN ON PLANS OR NOTED IN THE WSDOT/APWA SPECIFICATIONS.
2. REINFORCING SHALL BE EQUIVALENT TO WELDED WIRE FABRIC HAVING A MINIMUM AREA OF 0.12 SQUARE INCHES PER FOOT. WELDED WIRE FABRIC SHALL COMPLY TO ASTM A 497 (AASHTO M221). WIRE FABRIC SHALL NOT BE PLACED IN THE KNOCKOUTS.
3. THE BOTTOM OF THE PRECAST BASE SECTION MAY BE ROUNDED.
4. PRECAST BASES SHALL BE FURNISHED WITH CUTOUTS OR KNOCKOUTS. KNOCKOUTS SHALL HAVE A WALL THICKNESS OF 2" MINIMUM.
5. KNOCKOUTS MAY BE ON ALL 4 SIDES WITH MAXIMUM DIAMETER OF 20". KNOCKOUTS MAY BE EITHER ROUND OR "D" SHAPED. PIPE TO BE INSTALLED IN FACTORY SUPPLIED KNOCKOUTS.
6. KNOCKOUT OR CUTOUT HOLE SIZE IS EQUAL TO PIPE OUTER DIAMETER PLUS CONCRETE INLET WALL THICKNESS.
7. THE TAPER ON THE SIDES OF THE PRECAST BASE SECTION AND RISER SECTION SHALL NOT EXCEED 1/2" PER FT.
8. CONCRETE INLET FRAME AND GRATE SHALL BE IN ACCORDANCE WITH THE WSDOT/APWA SPECIFICATIONS AND MEET THE STRENGTH REQUIREMENTS OF FEDERAL SPECIFICATION RR-F-621D. MATING SURFACES SHALL BE FINISHED TO ASSURE NON-ROCKING FIT.
9. FRAME AND GRATE MAY BE INSTALLED WITH FLANGE DOWN OR CAST INTO RISER.

SEE TEXT SECTION 5-06
WSDOT/APWA PLAN 1-A



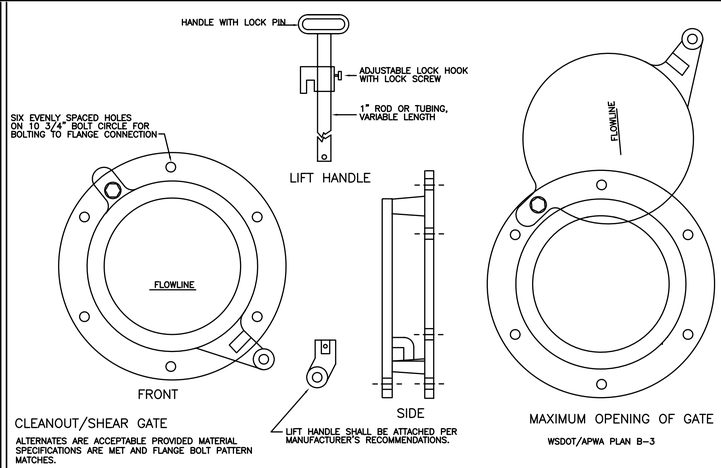
LOCKING FRAME AND GRATE (SEE STD DWG 5-180 FOR DETAILS)

2"X4"X8" SOLID BRICK USED FOR FINAL ADJUSTMENT TO GRADE. 6" HIGH MAX.

6" OR 12" CONCRETE RISER SECTION CLASS 4000 CONCRETE

PRECAST BASE SECTION (MEASUREMENT AT THE TOP OF THE BASE)

SNOHOMISH COUNTY PUBLIC WORKS		APPROVED BY:
5-060	CATCHBASIN TYPE 1	COUNTY ROAD ENGINEER DATE

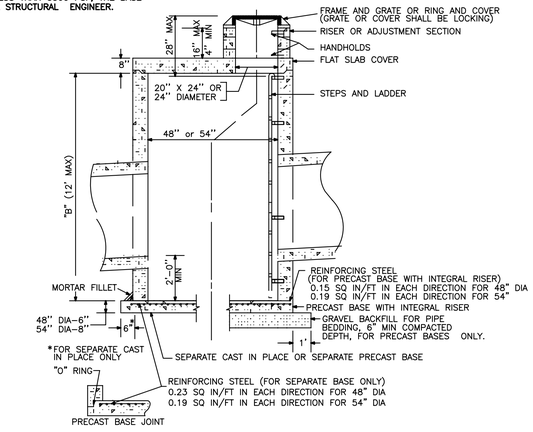


SEE TEXT SECTION 5-09.

SNOHOMISH COUNTY PUBLIC WORKS		APPROVED BY:
5-250	FLOW RESTRICTOR/ OIL POLLUTION CONTROL – T SHEAR GATE DETAIL	COUNTY ROAD ENGINEER DATE

DESIGN ASSUMPTIONS

SOIL BEARING VALUE EQUALS 3300 PSF (MIN). WHERE SOIL BEARING VALUE IS LESS THAN 3300 PSF, THE BASE SHALL BE DESIGNED BY A STRUCTURAL ENGINEER.



SNOHOMISH COUNTY PUBLIC WORKS		APPROVED BY:
5-090B	CATCHBASIN TYPE 2 – 48" & 54"	COUNTY ROAD ENGINEER DATE

NOTES

1. CATCHBASINS TO BE CONSTRUCTED IN ACCORDANCE WITH ASTM C 478 (AASHTO M 199) & ASTM C 890 UNLESS OTHERWISE SHOWN ON PLANS OR NOTED IN THE WSDOT/APWA SPECIFICATIONS.
2. HANDHOLDS IN RISER OR ADJUSTMENT SECTION SHALL HAVE A 3" MINIMUM CLEARANCE. STEPS IN CATCHBASIN SHALL HAVE 6" MINIMUM CLEARANCE. NO STEPS ARE REQUIRED WHEN "B" IS 4' OR LESS.
3. ALL REINFORCED CAST IN PLACE CONCRETE SHALL BE CLASS 4000. ALL PRECAST CONCRETE SHALL OBTAIN 4000 PSI @ 28 DAYS.
4. PRECAST BASES SHALL BE FURNISHED WITH CUTOUTS OR KNOCKOUTS. KNOCKOUTS SHALL HAVE A WALL THICKNESS OF 2" MINIMUM.
5. KNOCKOUT OR CUTOUT HOLE SIZE IS EQUAL TO PIPE OUTER DIAMETER PLUS CATCHBASIN WALL THICKNESS. MAXIMUM HOLE SIZE IS 36" FOR 48" CATCHBASIN, 42" FOR 54" CATCHBASIN. MINIMUM DISTANCE BETWEEN HOLES IS 8".
6. FRAME AND GRATE OR RING AND COVER SHALL BE IN ACCORDANCE WITH WSDOT/APWA SPECIFICATIONS AND MEET THE STRENGTH REQUIREMENTS OF FEDERAL SPECIFICATION 44-F-621D. MATING SURFACES SHALL BE FINISHED TO ASSURE NON-ROCKING FIT.
7. ALL BASE REINFORCING STEEL SHALL HAVE A MINIMUM YIELD STRENGTH OF 60,000 PSI AND BE PLACED IN THE UPPER HALF OF THE BASE WITH 1" MINIMUM CLEARANCE.
8. THE BOTTOM OF THE PRECAST CATCHBASIN MAY BE ROUNDED.
9. FOR DETAILS SHOWING FRAME AND GRATE, RING AND COVER SEE STANDARD DRAWING 5-180, "METAL FRAME AND GRATE (20X24)" OR STANDARD DRAWING 5-230, "MANHOLE RING AND COVER".
10. FOR DETAILS SHOWING LADDER, STEPS, HANDRAIL AND TOP SLAB SEE STANDARD DRAWING 5-120, "CATCHBASIN DETAILS".
11. FRAME AND GRATE MAY BE INSTALLED WITH FLANGE DOWN OR CAST INTO RISER.

WSDOT/APWA PLAN B-1e.

SEE TEXT SECTION 5-07

SNOHOMISH COUNTY PUBLIC WORKS		APPROVED BY:
5-090A	CATCHBASIN TYPE 2 – 48" & 54"	COUNTY ROAD ENGINEER DATE

NOTES:

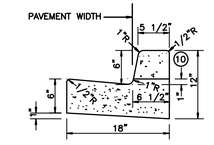
1. ALL STEEL IN PLATES, BARS AND BANDS SHALL CONFORM TO THE REQUIREMENTS OF ASTM A36.
2. STEEL DEBRIS CAGE SHALL BE HOT-DIP GALVANIZED IN ACCORDANCE WITH ASTM A123 (AASHTO M111).
3. ALUMINUM IS AN OPTIONAL CAGE MATERIAL.
4. COVER BAND DIMENSIONS TO MATCH STRUCTURE.

CB#5 OVERFLOW STRUCTURE

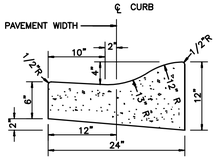
NOTES:

1. VERTICAL CURB WILL BE REQUIRED EXCEPT AS NOTED IN SECTION 4-04.
2. CONSTRUCTION OF CURB DETAILS SHALL BE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION AS PUBLISHED BY THE WASHINGTON STATE DEPARTMENT OF TRANSPORTATION AND THE AMERICAN PUBLIC WORKS ASSOCIATION. (WSDOT/APWA SPECIFICATIONS) UNLESS OTHERWISE MODIFIED BELOW.
3. ALL CONCRETE SHALL BE COMMERCIAL CLASS PER WSDOT/APWA SPECIFICATIONS.
4. FORMS SHALL BE TRUE TO LINE AND GRADE AND SECURELY STAKED. STEEL FORMS ONLY SHALL BE USED ON TANGENT SECTIONS. WOOD FORMS MAY BE USED ON CURVED SECTIONS.
5. FULL DEPTH EXPANSION JOINTS CONSISTING OF 3/8 INCH MINIMUM PREMOLDED JOINT MATERIAL SHALL BE PLACED ADJACENT TO CATCH BASINS, INLETS AND AT POINTS OF TANGENCY ON STREETS AND DRIVEWAY RETURNS. MAXIMUM SPACING SHALL BE 20 FEET.
6. CONTRACTION JOINTS (DUMMY JOINTS) CONSISTING OF 3/8" MIN. X 2" OF PREMOLDED JOINT MATERIAL SHALL BE CONSTRUCTED AT INTERVALS OF 10 FEET.
7. ALL JOINTS SHALL BE CLEAN AND EDGED.
8. FINISH SHALL BE A LIGHT BROOM FINISH.
9. FINISHED CURBS AND GUTTERS SHALL BE SPRAYED WITH A CLEAR CURING COMPOUND.
10. TOP OF CURB AT ACCESS POINT APPROACH.
11. SUBGRADE COMPACTION FOR CURBS AND GUTTERS SHALL MEET A MINIMUM 95% OF MAXIMUM DENSITY IN ACCORDANCE WITH SEC. 2-03.3(14) OF THE WSDOT/APWA SPECIFICATIONS.

SEE TEXT SECTION 4-04

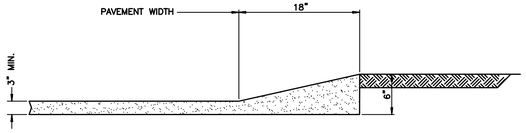


CEMENT CONCRETE VERTICAL CURB AND GUTTER



CEMENT CONCRETE ROLLED CURB AND GUTTER

SNOHOMISH COUNTY PUBLIC WORKS		APPROVED BY:
4-140	CURB DETAILS	COUNTY ROAD ENGINEER DATE

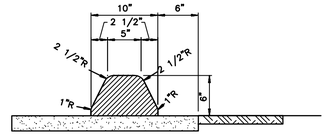


ASPHALT THICKENED EDGE

NOTES:

1. EXTRUDED CURB SHALL BE BONDED TO THE PAVEMENT WITH TACK COAT OR SLURRY MIXTURE ADHESIVE.
2. JOINTS IN EXTRUDED CEMENT CONCRETE CURB SHALL BE CUT VERTICALLY AT 10 FOOT INTERVALS TO A MINIMUM DEPTH OF 5 INCHES. SAWED CUTS SHALL BE 1/8 INCH MINIMUM WIDTH.

SEE TEXT SECTION 4-04



EXTRUDED CURB

SNOHOMISH COUNTY PUBLIC WORKS		APPROVED BY:
4-145	CURB DETAILS	COUNTY ROAD ENGINEER DATE

Snohomish County Planning and Development Services
APPROVED FOR CONSTRUCTION (or GRADING in the case of grading permits)

BY: _____

for Randolph R. Sleight, P.E., P.L.S.

PFN: 05-119975

Jingsong Feng — STATE OF WASHINGTON — 32575 — REGISTERED PROFESSIONAL ENGINEER — 06/15/05
EXPIRES: 2/18/07

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Civil Engineering and Planning Consultants
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SNOHOMISH CO., WA

CLEARVIEW JIFFY LUBE

FOR:
DARRELL WILSON
CLEARVIEW COMPANIES
P.O. BOX 58187
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PROJECT NO.: 04092
DRAWN BY: DJW
ISSUE DATE: 05-04-05
SHEET REV.: 10-26-05

DETAILS

P:\dd\04092 Clearview Jiffy Lube\dwg\

SHEET 06 OF 07